

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method, comprising:

detecting, by a mobile node, border information in beacons of access nodes of a first technology network;

storing, in the mobile node, detected border information in beacons of a previous access node of the first technology network, to which the mobile node was connected; and

deciding, by the mobile node, initiating on a handover procedure between the first technology network and a second technology network based on the ~~detected stored~~ border information and detected border information in beacons of a current access node of the first technology network, to which the mobile node is connected.

2. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;

arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes indicating information about a non-border region;

detecting the information about the border and non-border regions; and

deciding initiating a handover procedure between the first and second technology networks based on the detected information.

3. (Withdrawn) The method according to claim 2, comprising the step of:

in case the detected region information is border region information, aggressively deciding initiating the handover procedure from the first technology network to the second technology network.

4. (Withdrawn) The method according to claim 2, further comprising the step of:
in case the detected region information is non-border region information, conservatively deciding initiating the handover procedure from the first technology network to the second technology network.
5. (Withdrawn) The method according to claim 2, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold, deciding initiating the handover procedure between the first and second technology networks based on the detected region information.
6. (Withdrawn) The method according to claim 2, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold and the detected region information is border region information, aggressively deciding initiating the handover procedure from the first technology network to the second technology network.
7. (Withdrawn) The method according to claim 2, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold and the region information is non-border region information, conservatively deciding initiating the handover procedure from the first technology network to the second technology network.
8. (Cancelled)
9. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:
arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;
arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes indicating information about a non-border region;

detecting the information about the border and non-border regions; and
deciding preparing a handover procedure between the first and second technology
networks based on the detected information.

10. (Withdrawn) The method according to claim 9, comprising the step of:
in case the detected region information is border region information, aggressively
deciding preparing the handover procedure from the first technology network to the second
technology network.
11. (Withdrawn) The method according to claim 9, comprising the step of:
in case the detected region information is non-border region information,
conservatively deciding preparing the handover procedure from the first technology network
to the second technology network.
12. (Withdrawn) The method according to claim 9, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold, deciding
preparing the handover procedure between the first and second technology networks based on
the detected region information.
13. (Withdrawn) The method according to claim 9, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold and the
detected region information is border region information, aggressively deciding preparing the
handover procedure from the first technology network to the second technology network.
14. (Withdrawn) The method according to claim 9, further comprising the steps of:
detecting a signal strength from the first technology network; and
in case the detected signal strength is below a predetermined threshold and the region
information is non-border information, conservatively deciding preparing the handover
procedure from the first technology network to the second technology network.
15. (Cancelled)

16. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;

arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes indicating information about a non-border region;

detecting the information about the border and non-border regions; and

deciding preparing a handover procedure and performing actual handover between the first and second technology networks based on the detected information.

17. (Withdrawn) The method according to claim 16, further comprising the steps of:

in case the detected region information is border region information, aggressively deciding preparing the handover procedure from the first technology network to the second technology network;

detecting a signal strength from the first technology network; and

in case the detected signal strength is below a predetermined threshold, deciding performing the actual handover between the first and second technology networks based on the detected region information.

18. (Withdrawn) The method according to claim 16, further comprising the steps of:

in case the detected region information is non-border region information, conservatively deciding preparing the handover procedure from the first to second technology network;

detecting a signal strength from the first technology network; and

in case the detected signal strength is below a predetermined threshold, deciding performing the actual handover between the first and second technology networks based on the detected region information.

19. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

detecting information about regions of an area of the first technology network;
detecting information about a movement of a mobile node in the first technology network; and

deciding initiating a handover procedure between the first and second technology networks based on the detected region information and movement information.

20. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;

arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes having overlapping coverage with that of the border access nodes and indicating information about a non-border region;

detecting the information about the border and non-border regions;

storing region information detected at certain time instances;

detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and

deciding initiating a handover procedure between the first and second technology networks based on the detected region and movement information.

21. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

detecting information about regions of an area of the first technology network;

detecting information about a movement of a mobile node in the first technology network; and

deciding preparing a handover procedure between the first and second technology networks based on the detected region information and movement information.

22. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;

arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes having overlapping coverage with that of the border access nodes and indicating information about a non-border region;

detecting the information about the border and non-border regions;

storing region information detected at certain time instances;

detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and

deciding preparing a handover procedure between the first and second technology networks based on the detected region and movement information.

23. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

detecting information about regions of an area of the first technology network;

detecting information about a movement of a mobile node in the first technology network; and

deciding preparing a handover procedure between the first and second technology networks based on the detected region information and movement information, and deciding performing actual handover between the first and second technology networks based on the detected region information and movement information.

24. (Withdrawn) A method of controlling handover between a first technology network and a second technology network, comprising the steps of:

arranging border access nodes for accessing the first technology network at border regions of an area of the first technology network, the border access nodes indicating information about a border region;

arranging non-border access nodes for accessing the first technology network at non-border regions of the area of the first technology network, the non-border access nodes having overlapping coverage with that of the border access nodes and indicating information

about a non-border region;

detecting the information about the border and non-border regions;

storing region information detected at certain time instances;

detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and

deciding preparing a handover procedure and deciding performing actual handover between the first and second technology networks based on the detected region and movement information.

25. (Currently Amended) A mobile node, comprising:

a detecting unit detector configured to detect border information in beacons of access nodes of a first technology network;

a memory configured to store detected border information in beacons of a previous access node of the first technology network, to which the mobile node was connected; and

a deciding unit decision processor configured to decide on a handover procedure between the first technology network and a second technology network based on the detected stored border information and detected border information in beacons of a current access node of the first technology network, to which the mobile node is connected.

26. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:

means for detecting information about a border region which is transmitted by border access nodes for accessing the first technology network which are located at border regions of an area of the first technology network and information about a non-border region which is transmitted by non-border access nodes for accessing the first technology network which are located at non-border regions of the area of the first technology network; and

means for deciding initiating a handover procedure between the first and second technology networks based on the detected information.

27. (Withdrawn) The mobile node according to claim 26, further comprising means for aggressively deciding initiating the handover procedure from the first to the second technology network in case the detected region information is border region information.

28. (Withdrawn) The mobile node according to claim 26, further comprising means for conservatively deciding initiating the handover procedure from the first to the second technology network in case the detected region information is non-border region information.

29. (Withdrawn) The mobile node according to claim 26, further comprising:
means for detecting a signal strength from the first technology network; and
means for deciding initiating the handover procedure between the first and second technology networks based on the detected region information in case the detected signal strength is below a predetermined threshold.

30. (Withdrawn) The mobile node according to claim 26, further comprising:
means for detecting a signal strength from the first technology network; and
means for aggressively deciding initiating the handover procedure from the first to the second technology network in case the detected signal strength is below a predetermined threshold and the detected region information is border region information.

31. (Withdrawn) The mobile node according to claim 26, further comprising:
means for detecting a signal strength from the first technology network; and
means for conservatively deciding initiating the handover procedure from the first to the second technology network in case the detected signal strength is below a predetermined threshold and the region information is non-border information.

32. (Cancelled)

33. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:
means for detecting information about a border region which is transmitted by border access nodes for accessing the first technology network which are located at border regions of an area of the first technology network and information about a non-border region which is transmitted by non-border access nodes for accessing the first technology network which are located at non-border regions of the area of the first technology network; and
means for deciding preparing a handover procedure between the first and second technology networks based on the detected information.

34. (Withdrawn) The mobile node according to claim 33, further comprising means for aggressively deciding preparing the handover procedure from the first to the second technology network in case the detected region information is border region information.

35. (Withdrawn) The mobile node according to claim 33, further comprising means for conservatively deciding preparing the handover procedure from the first to the second technology network in case the detected region information is non-border region information.

36. (Withdrawn) The mobile node according to claim 33, further comprising:
means for detecting a signal strength from the first technology network; and
means for deciding preparing the handover procedure between the first and second technology networks based on the detected region information in case the detected signal strength is below a predetermined threshold.

37. (Withdrawn) The mobile node according to claim 33, further comprising:
means for detecting a signal strength from the first technology network; and
means for aggressively deciding preparing the handover procedure from the first to the second technology network in case the detected signal strength is below a predetermined threshold and the detected region information is border region information.

38. (Withdrawn) The mobile node according to claim 33, further comprising:
means for detecting a signal strength from the first technology network; and
means for conservatively deciding preparing the handover procedure from the first to the second technology network in case the detected signal strength is below a predetermined threshold and the region information is non-border information.

39. (Cancelled)

40. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:
means for detecting information about a border region which is transmitted by border access nodes for accessing the first technology network which are located at border regions of an area of the first technology network and information about a non-border region which is transmitted by non-border access nodes for accessing the first technology network which are

located at non-border regions of the area of the first technology network; and
means for deciding preparing a handover procedure and means for deciding
performing actual handover between the first and second technology networks based on the
detected information.

41. (Withdrawn) The mobile node according to claim 40, further comprising:
means for aggressively deciding preparing the handover procedure from the first to
the second technology network in case the detected region information is border region
information;
means for detecting a signal strength from the first technology network; and
means for deciding performing the actual handover between the first and second
technology networks based on the detected region information in case the detected signal
strength is below a predetermined threshold.

42. (Withdrawn) The mobile node according to claim 40, further comprising:
means for conservatively deciding preparing the handover procedure from the first to
the second technology network in case the detected region information is non-border region
information;
means for detecting a signal strength from the first technology network; and
means for deciding performing the actual handover between the first and second
technology networks based on the detected region information in case the detected signal
strength is below a predetermined threshold.

43. (Cancelled)

44. (Withdrawn) A mobile node for controlling handover between a first technology
network and a second technology network, comprising:
means for detecting information about a border region which is transmitted by border
access nodes for accessing the first technology network which are located at border regions
of an area of the first technology network and information about a non-border region which is
transmitted by non-border access nodes for accessing the first technology network which are
located at non-border regions of the area of the first technology network, the non-border
access nodes having overlapping coverage with that of the border access nodes;

means for storing region information detected at certain time instances;
means for detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and
means for deciding initiating a handover procedure between the first and second technology networks based on the detected region and movement information.

45. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:

means for detecting information about regions of an area of the first technology network;
means for detecting information about a movement of a mobile node in the first technology network; and
means for deciding preparing a handover procedure between the first and second technology networks based on the detected region information and movement information.

46. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:

means for detecting information about a border region which is transmitted by border access nodes for accessing the first technology network which are located at border regions of an area of the first technology network and information about a non-border region which is transmitted by non-border access nodes for accessing the first technology network which are located at non-border regions of the area of the first technology network, the non-border access nodes having overlapping coverage with that of the border access nodes;

means for storing region information detected at certain time instances;
means for detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and
means for deciding preparing a handover procedure between the first and second technology networks based on the detected region and movement information.

47. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:

means for detecting information about regions of an area of the first technology

network;

means for detecting information about a movement of a mobile node in the first technology network; and

means for deciding preparing a handover procedure between the first and second technology networks based on the detected region information and movement information, and means for deciding performing actual handover between the first and second technology networks based on the detected region information and movement information.

48. (Withdrawn) A mobile node for controlling handover between a first technology network and a second technology network, comprising:

means for detecting information about a border region which is transmitted by border access nodes for accessing the first technology network which are located at border regions of an area of the first technology network and information about a non-border region which is transmitted by non-border access nodes for accessing the first technology network which are located at non-border regions of the area of the first technology network, the non-border access nodes having overlapping coverage with that of the border access nodes;

means for storing region information detected at certain time instances;

means for detecting information about a movement of a mobile node in the first technology network on the basis of detected and stored region information; and

means for deciding preparing a handover procedure and deciding performing actual handover between the first and second technology networks based on the detected region and movement information.

49 - 51. (Cancelled)

52. (Previously Presented) The method of claim 1, wherein the first technology network is a Wireless Local Access Network and the second technology network is a cellular network.

53. (Previously Presented) The method of claim 1, wherein the border information comprises information about regions of an area of the first technology network, wherein the regions comprise border regions of the area of the first technology network and non-border regions of the area of the first technology network.

54. (Previously Presented) The mobile node of claim 25, wherein the border information comprises a border bit in the beacons, wherein the border bit indicates whether an access point is placed at a border of the first technology network, and the detecting unit is configured to detect the border bit.

55. (Previously Presented) The mobile node of claim 25, wherein the deciding unit, when deciding on the handover procedure, is configured to initiate the handover procedure.

56. (Previously Presented) The mobile node of claim 25, wherein the deciding unit, when deciding on the handover procedure, is configured to prepare the handover procedure.

57. (Previously Presented) The mobile node of claim 25, wherein the deciding unit, when deciding on the handover procedure, is configured to prepare and perform the handover procedure.

58. (Previously Presented) The mobile node of claim 25, comprising:

a movement detecting unit configured to detect information about a movement of the mobile node in the first technology network, wherein the deciding unit, when deciding on the handover procedure, is configured to initiate the handover procedure, is configured to initiate the handover procedure based on the detected border information and movement information detected by the movement detecting unit.

59. (Currently Amended) A computer-readable storage medium storing a program for causing a computer to execute:

detecting, by a mobile node, border information in beacons of access nodes of a first technology network;

storing, in the mobile node, detected border information in beacons of a previous access node of the first technology network, to which the mobile node was connected; and

deciding, by a mobile node, on a handover procedure between the first technology network and a second technology network based on the detected stored border information and detected border information in beacons of a current access node of the first technology network, to which the mobile node is connected.